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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,634	09/09/2003	Jae-Yong Jeong	4591-355	5202
7590 03/18/2004			EXAMINER	
MARGER JOHNSON & McCOLLOM, P.C.			LE, THONG QUOC	
1030 S.W. Morrison Street Portland, OR 97205			ART UNIT	PAPER NUMBER
•			2818	
			DATE MAILED: 03/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.	Applicant(s)	
10/659,634	JEONG ET AL.	
Examiner	Art Unit	
Thong Q. Le	2818	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence a **Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered time.

- Failu Any	Deriod for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. The to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). The reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any ed patent term adjustment. See 37 CFR 1.704(b).
Status	
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
5) 6) 7)	Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to Claim(s) 1-32 are subject to restriction and/or election requirement.
Applicat	ion Papers
10)	The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority (under 35 U.S.C. § 119
а)	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). See the attached detailed Office action for a list of the certified copies not received.
2) Notice 3) Infor	tote of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) The results of Draftsperson's Patent Drawing Review (PTO-948) The proof of References Cited (PTO-413) The proof of Draftsperson's Patent Drawing Review (PTO-948) The proof of Draftsperson's PTO-948 (PTO-948) The pro

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DETAILED ACTION

1. Claims 1-32 are presented for examination.

Election/Restrictions

- 2. Claims 1-15 drawn to an apparatus of a nonvolatile semiconductor memory device has page buffers and bitline voltage controller.
- 3. Claims 16-32 drawn to a method of programming in a nonvolatile semiconductor memory device has registers.
- 4. Inventions an apparatus of a nonvolatile semiconductor memory device of claims 1-15 and a method of programming in a nonvolatile semiconductor memory device of claims 16-32 are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the method of programming in nonvolatile memory device of claims 16-32 can be used in a volatile memory device or can be used without page buffers as apparatus of claims 1-15 contained or the apparatus of claims 1-15 can be used without needed of registers as contents of claim method 16-32.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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6. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le
Primary Examiner
Art Unit 2818

THONG LEI
PRIMARY EXAMINER